

## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/518,599  
Source: PCP/10  
Date Processed by STIC: 1/10/05

# *ENTERED*



PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/518,599

DATE: 01/10/2005  
TIME: 15:28:24

Input Set : D:\Sonn064US.txt  
Output Set: N:\CRF4\01102005\J518599.raw

3 <110> APPLICANT: PENNINGER, JOSEPH M.  
4 CRACKOWER, MICHAEL A.  
6 <120> TITLE OF INVENTION: ACE2 ACTIVATION FOR TREATMENT OF HEART, LUNG AND  
7 KIDNEY DISEASE AND HYPERTENSION  
9 <130> FILE REFERENCE: SONN:064US  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/518,599  
12 <141> CURRENT FILING DATE: 2004-12-17  
14 <150> PRIOR APPLICATION NUMBER: PCT/CA03/00882  
15 <151> PRIOR FILING DATE: 2003-06-19  
17 <150> PRIOR APPLICATION NUMBER: US 60/389,709  
18 <151> PRIOR FILING DATE: 2002-06-19  
20 <160> NUMBER OF SEQ ID NOS: 24  
22 <170> SOFTWARE: PatentIn version 3.1  
25 <210> SEQ ID NO: 1  
26 <211> LENGTH: 3405  
27 <212> TYPE: DNA  
28 <213> ORGANISM: Homo sapiens  
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33 gtccttctc agcctgttg ctgttaactgc tgctcagtcc accattgagg aacaggccaa 180  
34 gacattttg gacaagttt accacgaagc cgaagacctg ttctatcaaa gttcacttgc 240  
35 ttcttggaaat tataacacca atattactga agagaatgtc caaaacatga ataatgttgg 300  
36 ggacaaaatgg tctgccttt taaaggaaca gtccacactt gcccaaatgt atccactaca 360  
37 agaaaattcag aatctcacag tcaagcttca gtcgcaggct cttcagcaaa atgggttttc 420  
38 agtgctctca gaagacaaga gcaaaccgtt gaacacaatt ctaaatacaa tgacccat 480  
39 ctacagtaact ggaaaagttt gtaacccaga taatccacaa gaatgtttt tacttgaacc 540  
40 aggtttgaat gaaataatgg caaacagttt agactacaat gagaggctt gggcttggga 600  
41 aagctggaga tctgaggtcg gcaaggcactt gaggccatta tatgaagagt atgtggtctt 660  
42 gaaaaatggat atggcaagag caaatcatta tgaggactat ggggattatt ggagaggaga 720  
43 ctatgaagta aatggggtag atggctatga ctacagccgc ggccagttga ttgaagatgt 780  
44 ggaacatacc tttgaagaga ttaaaccatt atatgaacat cttcatgcct atgtgaggc 840  
45 aaagttgatg aatgcctatc cttccatata cagtcattt ggtatgcctcc ctgctcattt 900  
46 gcttgggtat atgtgggtt gattttggac aaatctgtac tctttgcacag ttccctttgg 960  
47 acagaaaacca aacatagatg ttactgtatc aatgtgtggac caggccttgg atgcacagag 1020  
48 aatattcaag gaggccgaga agttctttgt atctgttggt cttcctaata tgactcaagg 1080  
49 attctggaaa aattccatgc taacggaccc aggaaaatgtt cagaaagcag tctgcctatcc 1140  
50 cacagcttgg gacctggggaa agggcgactt caggatcctt atgtgcacaa aggtgacaat 1200  
51 ggacgacttc ctgacagctc atcatgagat gggccatatc cagttatgata tggcatatgc 1260  
52 tgcacaaacct tttctgttca gaaatggagc taatgaagga ttccatgaag ctgtggggaa 1320  
53 aatcatgtca ctttctgtcag ccacacctaa gcatttaaaa tccattggtc ttctgtcacc 1380  
54 cgattttcaa gaagacaatg aaacagaaat aaacttcctg ctcaaacaag cactcacat 1440  
55 tggggact ctgcccattta ottacatgtt agagaagtgg aggtggatgg tctttaaagg 1500

P.6

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58	ttctaatgtat	tactcattca	ttcgatatta	cacaaggacc	ctttaccaat	tccagttca	1680
59	agaagactt	tgtcaagcg	ctaaacatga	aggccctctg	cacaaatgtg	acatctcaaa	1740
60	ctctacagaa	gctggacaga	aactgttcaa	tatgctgagg	cttggaaaat	cagaaccctg	1800
61	gaccctagca	ttggaaaatg	ttgttaggagc	aaagaacatg	aatgtaaaggc	cactgctcaa	1860
62	ctacttttag	cccttattta	cctggctgaa	agaccagaac	aagaattctt	ttgtggatg	1920
63	gagtaccgac	tggagtcat	atgcagacca	aagcatcaaa	gtgaggataa	gcctaaaatc	1980
64	agctcttgg	gataaagcat	atgaatggaa	cgacaatgaa	atgtacctgt	tccgatcatc	2040
65	tgttgcata	gctatgaggc	agtaactttt	aaaagtaaaa	aatcagatga	ttctttttgg	2100
66	ggaggaggat	gtgcgagtgg	ctaatttga	accaagaatc	tcctttaatt	tctttgtcac	2160
67	tgcaccta	aatgtgtctg	atatcattcc	tagaactgaa	gttggaaaagg	ccatcaggat	2220
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69	gatacagcca	acacttggac	ctcctaacc	gccccctgtt	tccatatggc	tgatttgg	2340
70	tggagttgt	atggagtg	tagtggttgg	cattgtcatc	ctgatcttca	ctgggatcag	2400
71	agatcggaa	aagaaaaata	aagcaagaag	tggagaaaat	ccttatgcct	ccatcgat	2460
72	tagcaaagg	aaaaataatc	caggattcca	aaacactgat	gatgttcaga	cctcctttt	2520
73	aaaaatcta	tgttttcct	cttgagggt	ttttgttga	tgtaatgtt	aatttcatgg	2580
74	tatagaaaaat	ataagatgat	aaagatata	ttaaatgtca	aaactatgac	tctgttcaga	2640
75	aaaaaaattt	tccaaagaca	acatggccaa	ggagagagca	tcttcattga	cattgtttc	2700
76	agtatttat	tctgtctctg	gatttgactt	ctgttctgtt	tcttaataag	gattttgtat	2760
77	tagtgtat	tagggaaagt	gtgtatttgg	tctcacaggc	tgttcaggga	taatctaaat	2820
78	gttaatgtct	gttgaattt	tgaagttgaa	aacaaggata	tatcattgga	gcaagtgtt	2880
79	gatcttgat	ggaatatg	ttgatcactt	gtaaggacag	tgcctggaa	ctgggttagc	2940
80	tgcaggatt	gagaatggca	tgcatttagt	cacttcatt	taatccattg	tcaaggatga	3000
81	catgcttct	tcacagtaac	tcaagttcaag	tactatgg	atttgcctac	agtatgttt	3060
82	ggaatcgatc	atgcttctt	caaggtgaca	ggtctaaaga	gagaagaatc	caggaaacag	3120
83	gtagaggaca	ttgcttttc	acttccaagg	tgcttgatc	acatctccct	gacaacacaa	3180
84	aactagagcc	agggccctcc	gtgaactccc	agagcatgcc	tgatagaaac	tcatttctac	3240
85	tgttctctaa	ctgtggagt	aatggaaatt	ccaaactgtat	gttcaccctc	tgaagtgg	3300
86	accagtctc	ttaaatctt	tgtatgtt	cacagtgtt	gagcagtgt	gagcacaaag	3360
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89 <210> SEQ ID NO: 2

90 <211> LENGTH: 805

91 <212> TYPE: PRT

92 <213> ORGANISM: Homo sapiens

94 <400> SEQUENCE: 2

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97	Ala	Gln	Ser	Thr	Ile	Glu	Glu	Gln	Ala	Lys	Thr	Phe	Leu	Asp	Lys	Phe
98								20		25					30	
99	Asn	His	Glu	Ala	Glu	Asp	Leu	Phe	Tyr	Gln	Ser	Ser	Leu	Ala	Ser	Trp
100								35		40					45	
101	Asn	Tyr	Asn	Thr	Asn	Ile	Thr	Glu	Glu	Asn	Val	Gln	Asn	Met	Asn	Asn
102								50		55					60	
103	Ala	Gly	Asp	Lys	Trp	Ser	Ala	Phe	Leu	Lys	Glu	Gln	Ser	Thr	Leu	Ala
104	65							70			75				80	
105	Gln	Met	Tyr	Pro	Leu	Gln	Glu	Ile	Gln	Asn	Leu	Thr	Val	Lys	Leu	Gln
106								85		90					95	

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107 Leu Gln Ala Leu Gln Gln Asn Gly Ser Ser Val Leu Ser Glu Asp Lys  
108 100 105 110  
109 Ser Lys Arg Leu Asn Thr Ile Leu Asn Thr Met Ser Thr Ile Tyr Ser  
110 115 120 125  
111 Thr Gly Lys Val Cys Asn Pro Asp Asn Pro Gln Glu Cys Leu Leu Leu  
112 130 135 140  
113 Glu Pro Gly Leu Asn Glu Ile Met Ala Asn Ser Leu Asp Tyr Asn Glu  
114 145 150 155 160  
115 Arg Leu Trp Ala Trp Glu Ser Trp Arg Ser Glu Val Gly Lys Gln Leu  
116 165 170 175  
117 Arg Pro Leu Tyr Glu Glu Tyr Val Val Leu Lys Asn Glu Met Ala Arg  
118 180 185 190  
119 Ala Asn His Tyr Glu Asp Tyr Gly Asp Tyr Trp Arg Gly Asp Tyr Glu  
120 195 200 205  
121 Val Asn Gly Val Asp Gly Tyr Asp Tyr Ser Arg Gly Gln Leu Ile Glu  
122 210 215 220  
123 Asp Val Glu His Thr Phe Glu Glu Ile Lys Pro Leu Tyr Glu His Leu  
124 225 230 235 240  
125 His Ala Tyr Val Arg Ala Lys Leu Met Asn Ala Tyr Pro Ser Tyr Ile  
126 245 250 255  
127 Ser Pro Ile Gly Cys Leu Pro Ala His Leu Leu Gly Asp Met Trp Gly  
128 260 265 270  
129 Arg Phe Trp Thr Asn Leu Tyr Ser Leu Thr Val Pro Phe Gly Gln Lys  
130 275 280 285  
131 Pro Asn Ile Asp Val Thr Asp Ala Met Val Asp Gln Ala Trp Asp Ala  
132 290 295 300  
133 Gln Arg Ile Phe Lys Glu Ala Glu Lys Phe Phe Val Ser Val Gly Leu  
134 305 310 315 320  
135 Pro Asn Met Thr Gln Gly Phe Trp Glu Asn Ser Met Leu Thr Asp Pro  
136 325 330 335  
137 Gly Asn Val Gln Lys Ala Val Cys His Pro Thr Ala Trp Asp Leu Gly  
138 340 345 350  
139 Lys Gly Asp Phe Arg Ile Leu Met Cys Thr Lys Val Thr Met Asp Asp  
140 355 360 365  
141 Phe Leu Thr Ala His His Glu Met Gly His Ile Gln Tyr Asp Met Ala  
142 370 375 380  
143 Tyr Ala Ala Gln Pro Phe Leu Leu Arg Asn Gly Ala Asn Glu Gly Phe  
144 385 390 395 400  
145 His Glu Ala Val Gly Glu Ile Met Ser Leu Ser Ala Ala Thr Pro Lys  
146 405 410 415  
147 His Leu Lys Ser Ile Gly Leu Leu Ser Pro Asp Phe Gln Glu Asp Asn  
148 420 425 430  
149 Glu Thr Glu Ile Asn Phe Leu Leu Lys Gln Ala Leu Thr Ile Val Gly  
150 435 440 445  
151 Thr Leu Pro Phe Thr Tyr Met Leu Glu Lys Trp Arg Trp Met Val Phe  
152 450 455 460  
153 Lys Gly Glu Ile Pro Lys Asp Gln Trp Met Lys Lys Trp Trp Glu Met  
154 465 470 475 480  
155 Lys Arg Glu Ile Val Gly Val Val Glu Pro Val Pro His Asp Glu Thr

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156	485	490	495	
157	Tyr Cys Asp Pro Ala Ser Leu Phe His Val Ser Asn Asp Tyr Ser Phe			
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159	Ile Arg Tyr Tyr Thr Arg Thr Leu Tyr Gln Phe Gln Phe Gln Glu Ala			
160	515	520	525	
161	Leu Cys Gln Ala Ala Lys His Glu Gly Pro Leu His Lys Cys Asp Ile			
162	530	535	540	
163	Ser Asn Ser Thr Glu Ala Gly Gln Lys Leu Phe Asn Met Leu Arg Leu			
164	545	550	555	560
165	Gly Lys Ser Glu Pro Trp Thr Leu Ala Leu Glu Asn Val Val Gly Ala			
166	565	570	575	
167	Lys Asn Met Asn Val Arg Pro Leu Leu Asn Tyr Phe Glu Pro Leu Phe			
168	580	585	590	
169	Thr Trp Leu Lys Asp Gln Asn Lys Asn Ser Phe Val Gly Trp Ser Thr			
170	595	600	605	
171	Asp Trp Ser Pro Tyr Ala Asp Gln Ser Ile Lys Val Arg Ile Ser Leu			
172	610	615	620	
173	Lys Ser Ala Leu Gly Asp Lys Ala Tyr Glu Trp Asn Asp Asn Glu Met			
174	625	630	635	640
175	Tyr Leu Phe Arg Ser Ser Val Ala Tyr Ala Met Arg Gln Tyr Phe Leu			
176	645	650	655	
177	Lys Val Lys Asn Gln Met Ile Leu Phe Gly Glu Asp Val Arg Val			
178	660	665	670	
179	Ala Asn Leu Lys Pro Arg Ile Ser Phe Asn Phe Phe Val Thr Ala Pro			
180	675	680	685	
181	Lys Asn Val Ser Asp Ile Ile Pro Arg Thr Glu Val Glu Lys Ala Ile			
182	690	695	700	
183	Arg Met Ser Arg Ser Arg Ile Asn Asp Ala Phe Arg Leu Asn Asp Asn			
184	705	710	715	720
185	Ser Leu Glu Phe Leu Gly Ile Gln Pro Thr Leu Gly Pro Pro Asn Gln			
186	725	730	735	
187	Pro Pro Val Ser Ile Trp Leu Ile Val Phe Gly Val Val Met Gly Val			
188	740	745	750	
189	Ile Val Val Gly Ile Val Ile Leu Ile Phe Thr Gly Ile Arg Asp Arg			
190	755	760	765	
191	Lys Lys Lys Asn Lys Ala Arg Ser Gly Glu Asn Pro Tyr Ala Ser Ile			
192	770	775	780	
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202	<213> ORGANISM: Mus musculus			
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206	ttctcttc agtgcccaac ccaagttcaa aggctgatga gagagaaaaa ctcatgaaga		120	
207	gattttactc tagggaaagt tgctcagtgg atggatctt ggcgcacggg gaaagatgtc		180	

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210	aagttcactt	gcttcttggaa	attataatac	taacattact	gaagaaaatg	cccaaaaagat	360							
211	gagtgaggt	gcagccaaat	ggtctgcctt	ttatgaagaa	cagtctaaga	ctgccccaaag	420							
212	tttctcacta	caagaaaatcc	agactccgat	catcaagcgt	caactacagg	cccttcagca	480							
213	aagtgggtct	tcagcactct	cagcagacaa	gaacaaacag	ttgaacacaa	ttctgaacac	540							
214	catgagcacc	atttacagta	ctggaaaagt	ttgcaaccca	aagaacccac	aagaatgctt	600							
215	attactttag	ccaggattgg	atgaaataat	ggcgacaaggc	acagactaca	actctaggct	660							
216	ctgggcattgg	gagggcttgg	gggctgaggt	tggcaaggcag	ctgaggccgt	tgtatgaaga	720							
217	gtatgtggtc	ctgaaaaacg	agatggcaag	agcaaacaat	tataacgact	atggggatta	780							
218	ttggagaggg	gactatgaag	cagaggggagc	agatggctac	aactataacc	gtaaccagtt	840							
219	gattgaagat	gtagaacgta	ccttcgcaaga	gatcaagcca	ttgtatgagc	atcttcatgc	900							
220	ctatgtgagg	aggaagttga	tggataccctt	cccttcctac	atcagcccc	ctggatgcct	960							
221	ccctgccccat	ttgcttgggt	atatgtgggg	tagatttgg	acaaatctgt	accctttgac	1020							
222	tgttcccttt	gcacagaaac	caaacataga	tgttactgt	gcaatgatga	atcagggctg	1080							
223	gatgcagaa	aggatatttc	aagaggcaga	gaaattcttt	gtttctgttg	gccttcctca	1140							
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225	tgtctgcccc	cccacagctt	gggatctggg	acacggagac	ttcagaatca	agatgtgtac	1260							
226	aaaggtcaca	atggacaact	tcttgacagc	ccatcacgag	atgggacaca	tccaatatga	1320							
227	catggcatat	gccaggcaac	ctttcctgt	aagaaacgga	gccaatgaag	ggttccatga	1380							
228	agctgttgg	gaaatcatgt	cactttctgc	agctacccccc	aagcatctga	aatccattgg	1440							
229	tcttctgcca	tccgattttc	aagaagatag	cgaacacagag	ataaaactcc	tactgaaaca	1500							
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231	gttctttcgg	ggtgaaattc	ccaaagagca	gtggatgaaa	aagtgggg	agatgaagcg	1620							
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233	tctgttccat	gtttctaata	attactcatt	cattcgatat	tacacaagga	ccatttacca	1740							
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237	accactgctc	aattacttcc	aaccgttgg	tgactggctg	aaagagcaga	acagaaattc	1980							
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248	gacttccttt	tagcaaagca	cttgtcatct	tcctgtatgt	aaatgctaac	ttcatagtagac	2640							
249	acaaaatatg	agagtataca	catgtcatta	gctatcaaaa	ctatgatctg	ttcagtaaac	2700							
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254	<211>	LENGTH:	805											
255	<212>	TYPE:	PRT											
256	<213>	ORGANISM:	Mus musculus											
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 44  
Seq#:8; N Pos. 51  
Seq#:9; N Pos. 43  
Seq#:10; N Pos. 55  
Seq#:11; N Pos. 53  
Seq#:12; N Pos. 54  
Seq#:13; N Pos. 57  
Seq#:14; N Pos. 65  
Seq#:15; N Pos. 61  
Seq#:16; N Pos. 37  
Seq#:17; N Pos. 29  
Seq#:18; N Pos. 41

VERIFICATION SUMMARY  
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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:60  
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60  
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:557 M:283 W: Missing Blank Line separator, <400> field identifier  
L:567 M:283 W: Missing Blank Line separator, <400> field identifier  
L:577 M:283 W: Missing Blank Line separator, <400> field identifier